

WO 01/34796

PCT/IL00/00736

SEQUENCE LISTING

<110> COMPUGEN LTD

<120> CHORDIN - LIKE HOMOLOGUE

<130> 1292754 - COMPUGEN

<140>

<141>

<150> IL 132846

<151> 1999-11-10

<150> IL 133767

<151> 1999-12-28

<160> 22

<170> PatentIn Ver. 2.1

<210> 1

<211> 1281

<212> DNA

<213> Homo sapiens

<400> 1

caggcggccca caaggcctga tgtactgcct gcgcgtgtacc tgctcagagg gcgccccatgt 60
gagttgttac cgccctccact gtccgcctgt ccactgcccc cagcctgtga cggagccaca 120
gcaatgtgt cccaagtgtg tggAACCTCA cactcccctct ggactccggg ccccaccaaa 180
gtcctgccag cacaacggga ccatgtacca acacggagag atcttcagtg cccatgagct 240
gttccccctcc cgccctgccca accagtgtgt cctctgcagc tgcacagagg gccagatcta 300
ctgcggcctc acaacactgcc ccgaaccagg ctgcccagca cccctcccgcc tgccagactc 360
ctgctgccaa gcctgcaaag atgaggcaag tgagcaatcg gatgaagagg acagtgtgca 420
gtcgctccat ggggtgagac atcctcagga tccatgttcc agtgatgctg ggagaaaagag 480
aggccccggc accccagccc ccactggcct cagcgccccct ctgagcttca tccctcgcca 540
cttcagaccc aagggagcag gcagcacaac tgtcaagatc gtccctgaagg agaaaacatan 600
gaaaggcctgt gtgcattggcg ggaagacgta ctcccacggg gaggtgtggc acccggcctt 660
ccgtgccttc ggccttgcc catgcattct atgcacctgt gaggatggcc gccaggactg 720
ccagcgtgtg acctgtccca cgaagtaccc ctgcgcgtcac cccgagaaaag tggctggaa 780
gtgctgcaag atttgcctcagg aggacaaaagc agaccctggc cacagtgaga tcagttctac 840
caggtgtccc aaggcaccgg gccgggtcct cgtccacaca tcggtatccc caagcccaga 900
caacctgcgt cgctttgccc tggAACACGA ggcctcggac ttgggtggaga tctacctctg 960
gaagctggta aaagatgagg aaactgaggc tcagagaggt gaagtacctg gccccaggcc 102
acacagccag aatttccact tgactcagat caagaaagtc aggaagcaag acttccagaa 108
agaggcacag cacttccgac tgctcgctgg ccccccacgaa ggtcaactgga acgtttccct 114
agcccagacc ctggagctga aggtcacggc cagtcacgac aaagtgacca agacataaca 120
aagacctaac agttgcagat atgagctgta taattgttgc tattatatat taataaataa 126
qaqttccat aaccatcaaa a 128

<210> 2

<211> 1722

<212> DNA

<213> Homo sapiens

<400> 2

accttccccc ttctttgat cgccctctccc ttctgctgga ctttccttcg tctctccatc 60
tctccctcct ttccccgggt tctcttcca ctttcttctt ctccccacct tagacccccc 120
ttcctgcctt ctttcctgc ccaccgctgc ttccctggccc ttctccgacc ccgctcttagc 180
aggaaacctc ctgggggtcat gtgggttgat ctgtggcccc tgtgnctccg tgtcctttc 240

gtctcccgtc ctcccactc cgctcccgga ccagggcct gaccctgggg aaaggatgg 300
 tcccgagggtg agggtccctc ctccttgct gggacccgcg ctgctctgg tccccctgga 360
 ctcccacgct cgagcccgcc cagacaatgtt ctgcctttc catggaaaga gatactcccc 420
 cggcgagagc tggcacccct acttggagcc acaaggcctg atgtactgcc tgccgtgtac 480
 ctgctcagag ggcgcggcatg tgagttgtt ccgcctccac tgtccgcctg tccactgccc 540
 ccagcctgtg acggagccac agcaatgctg tcccaagtgt gtggaaacctc acactccctc 600
 tggactccgg gccccaccaa agtcctgcca gcacaacggg accatgtacc aacacggaga 660
 gatcttcagt gcccatgagc tggcccttc ccgcctgccc aaccagtgtg tcctctgcag 720
 ctgcacagag ggccagatct actgcggcct cacaacctgc cccgaaccag gctgcccagc 780
 acccctcccg ctgcccagact cctgctgcca agcctgaaa gatgaggcaaa gtgagcaatc 840
 gnatgaagag gacagtgtgc agtcgttcca tggggtgaga catcctcagg atccatgttc 900
 cagtatgtct gggagaaaga gaggcccgaa caccggcctt cccactggcc tcagcccccc 960
 tcttagcttc atccctcgcc acttcagacc caagggagca ggcagcacaa ctgtcaagat 1020
 cgtcctgaag gagaaacata ngaaagcctg tgtgcattggc gggaaagacgt actcccacgg 1080
 ggaggtgtgg cacccggcct tccgtgcctt cggcccttgc ccatgcattcc tatgcacctg 1140
 tgaggatggc cgccaggact gccagcgtgt gacctgtccc acgaagtacc cctgcccgtca 1200
 ccccgagaaa gtggctggga agtgcgtccaa gatttccca gaggacaaag cagaccctgg 1260
 ccacagttag atcagttcta ccagggtgtcc caaggcaccg ggccgggtcc tcgtccacac 1320
 atcgttatcc ccaagcccag acaacctgcg tcgcttgcctt ctggAACACG aggccctcgga 1380
 ctttgtggag atctacctct ggaagctggt aaaagatgag gaaactgagg ctcagagagg 1440
 tgaagtacct ggcccaaggc cacacagccaa gaatttccac ttgactcaga tcaagaaagt 1500
 caggaagcaa gacttccaga aagaggcaca gcacttccga ctgctcgctg gcccccacga 1560
 aggtcactgg aacgtcttcc tagccagac cctggagctg aaggtcacgg ccagtccaga 1620
 caaagtgacc aagacataac aaagacactaa cagttgcaga tatgagctgt ataattgtt 1680
 ttattatata ttaataaaata agaagttgca taaccatcaa aa 1722

<210> 3
 <211> 1515
 <212> DNA
 <213> Homo sapiens

<400> 3
 agaacagtgc ctgnactga gaagtgcnc atgaaccctc attaaaatgc tggatgaact 60
 aactcgggccc ccactgagcg gaagctgagg ctgcccgtt taccttcttgc ctctgggtgg 120
 ggctggccca gacactgagg gggctggagg gctgtggtag agtcatggg agggagggac 180
 tcagtcagat gtaggtatca gaggacccctc ttatgttagct gataagggga atggctggca 240
 aggcccaggc cagagcttgg tttaaatatc aagctgggtt caaatgc当地 atcatcagaa 300
 aagtggcctt gttaatttca gcaaaagattc acatgaaacc tcattttctt cttccctcctg 360
 cccctcccccc actgtggAAC ctcacactcc ctctggactc cggcccccac caaagtccctg 420
 ccagcacaac gggaccatgt accaacaacgg agagatcttc agtgcctatg agctgttccc 480
 ctccgcctg cccaaaccatgt gtgtcctctg cagctgcaca gaggccaga tctactgcgg 540
 cctcacaacc tggcccaac caggctgccc agcaccctc ccgctgccag actcctgctg 600
 ccaagcctgc aaagatgagg caagtgcata atcgatgaa gaggacagtgc tgcaatcgct 660
 ccatgggtg agacatccctc aggtccatg ttcccaatgtat gctggagaa agagaggccc 720
 gggcacccca gcccccaactg gcctcagcgc ccctctgagc ttcatccctc gccacttcag 780
 acccaaggga gcaggcagca caactgtcaa gategtcctg aaggagaaac atangaaagc 840
 ctgtgtgcat ggccggaaaga cgtactccca cggggaggtg tggcacccgg cttccgtgc 900
 ctccggccct tggccatgca tcctatgcac ctgtgaggat ggccgcagg actgcccagcg 960
 tgtgacctgt cccacgaatg acccctgcgg tcaccccgag aaagtggctg ggaagtgcctg 1020
 caagatttgc ccagaggaca aagcagaccc tggccacagt gagatcgtt ctaccagggt 1080
 tcccaaggca cggggccggg tcctcgccca cacatcgta tcccccaagcc cagacaacct 1140
 gctcgcttt gcccggaaac acgaggcctc ggacttggtg gagatctacc tctggaaagct 1200
 ggtaaaagat gaggaaactg aggctcagag aggtgaagta cctggcccaa ggccacacag 1260
 ccagaatttc cactgactc agatcaagaa agtcaggaag caagacttcc agaaagaggc 1320
 acagcacttc cgactgctcg ctggcccccga cgaaggtcac tggAACGTCT tcctagcccc 1380
 gaccctggag ctgaagggtca cggccagtc agacaaatgt accaagacat aacaaagacc 1440
 taacagttgc agatatgagc tggatatttgc ttgttattat atattaataa ataagaagtt 1500
 gcataaccat caaaa 1515

<210> 4
<211> 1890
<212> DNA
<213> Homo sapiens

<400> 4

tagnancgnc cgccagggn tgnattcgcc cttactcann atagggntna acggccgccc 60
ggnncaggtgc caaatggaca aataaaaagga aacaagcatg attgttnaggn cagaggaggg 120
tggnattnag tcagaagact ggtgctgtca tcgctgcntg gtgactgact tgctgtgtgg 180
ccntcaggtg taacttaccc tctctgggcc tcatttgtct aatcataata attaacgttg 240
ataccatgtataaaatctgt acagcatttc actgcttgc tccctaactg ccctgtgaga 300
taagcgttaa ggctcagaga cagtggcatg cccagtggtg cacagtaagt gtgtggtaaa 360
gccgagattc aaactcagac cttctggccc ctgccttagg agagcatgcc cagttgtcta 420
gcagattctc ttttgtctga gtggcccaga tgacatctct ttttagagcta gaaagaagga 480
gaaatgagac agggtcttg ggctggagcc tcctggact aacatggcac tggtcgggtt 540
gccaggccca gacatgttgc gcctttcca tggaaagaga tactccccg gcgagagctg 600
gcacccctac ttggagccac aaggcctgtat gtactgcctg cgctgtacct gctcagagg 660
cgcccatgtg agttgttacc gcctccactg tccgcctgtc cactgcccc accctgtgac 720
ggagccacag caatgtgtc ccaagtggtg ggaacctcac actccctctg gactccggc 780
cccaccaaag tcctgccagc acaacgggac catgtaccaa cacggagaga tcttcagtgc 840
ccatgagctg ttcccctccc gcctggccaa ccagtgtgtc ctctgcagct gcacagagg 900
ccagatctac tgcggcctca caacctgccc cgaaccaggc tgcccagcac ccctcccgct 960
gccagactcc tgctgccaag cctgcaaaaga tgaggcaagt gagcaatcg atgaagagga 1020
cagtgtgcag tcgctccatg gggtgagaca tcctcaggat ccatgttcca gtgatgctgg 1080
gagaaagaga ggcccccggca ccccaagcccc cactggcctc agcgcccctc tgagcttcat 1140
ccctcgccac ttcagaccca agggagcagg cagcacaact gtcaagatcg tcctgaagga 1200
gaaacatang aaaggcctgtg tgcattggcg gaagacgtac tcccacgggg aggtgtggca 1260
cccgcccttc cgtgccttcg gcccttgccc atgcattccta tgcacccgtg aggatggccg 1320
ccagactgc cagcgtgtga cctgtcccac gaagtacccc tgccgtcacc ccgagaaagt 1380
ggctgggaag tgctgcaaga tttgcccaga ggacaaagca gaccctggcc acagttagat 1440
cagttctacc aggtgtccca aggccacccggg ccgggtcctc gtccacacat cggtatcccc 1500
aagcccagac aacctgcgtc gctttgcct ggaacacgag gcctcgact tggtgagat 1560
ctacccctgg aagctggtaa aagatgagga aactgaggct cagagagggtg aagtacctgg 1620
cccaaggcca cacagccaga atttccactt gactcagatc aagaaagtca ggaagcaaga 1680
cttcagaaaa gaggcacagc acttccgact gtcgcgtgc ccccacgaa gtcactggaa 1740
cgtcttccta gcccagaccc tggagctgaa ggtcacggcc agtccagaca aagtgaccaa 1800
gacataacaa agacctaaca gttgcagata tgagctgtat aattgttgtt attatatatt 1860
aataaataag aagttgcata accatcaaaa 1890

<210> 5
<211> 1722
<212> DNA
<213> Homo sapiens

<400> 5

accttccccc tttctttgat cgcctctccc ttctgctgga ctttccttcg tctctccatc 60
tctcccttcct ttccccgggt tctctttcca ctttctcttt cttcccacct tagacccccc 120
ttcctgcctt ccttccctgc ccaccgctgc ttctggccc ttctccgacc ccgctctagc 180
agcagacctc ctgggtctg tgggttgc tgggtttgtt gtgcctccgt gtcctttcg 240
tctcccttc tcccgactcc gctccggac cagcggctg accctgggg aaggatggtt 300
cccgaggtga gggtcctctc ctccttgctg ggactcgcgc tgctctgggtt cccctggac 360
tcccacgctc gagcccgccc agacatgttc tgcctttcc atgggaagag atactcccc 420
ggcgagagct ggcaccccta cttggagccca caaggctga tgtactgcct gcgctgtacc 480
tgctcagagg ggcggccatgt gagttgttac cgcctccact gtccgcctgt ccactgcccc 540
cagcctgtga cggagccaca gcaatgtgt cccaaatgtg tggAACCTCA cactccctct 600
ggactccggg ccccacaaaa gtcctggccag cacaacggga ccatgtacca acacggagag 660
atcttcagtg cccatgagct gttccctcc cgcctggccca accagtgtgt cctctgcagc 720
tgcacagagg gccagatcta ctgcgggctc acaacactgcc ccgaaccagg ctgcccagca 780
ccctcccgcc tgccagactc ctgcgtccag gcctgcaaag atgaggcaag tgagcaatcg 840
gatgaagagg accgtgtgca gtcgcctccat ggggtgagac atcctcagga tccatgttcc 900

```

agtgtatgtg ggagaaaagg agggccgggc acccccageccc ccactggcct cagcgcccct 960
ctgagcttca tccctcgcca cttcataaccc aaggaggcag gcagcacaac tgtcaagatc 1020
gtcctgaagg agaaacataa gaaagcctgt gtgcattggcg ggaagacgta ctccccacggg 1080
gaggtgtggc acccggcctt ccgtgccttc ggccccttgc cctgcattcct atgcacactgt 1140
gaggatggcc gccaggactg ccagcgtgtg acctgtccca ccgagtaacc ctgccgtcac 1200
cccgagaaaag tggctggaa gtgctgcaag atttgcccag aggacaaagc agaccctggc 1260
cacagtgaga tcagttctac caggtgtccc aaggcaccgg gccgggtcct cgtccacaca 1320
tcggtatccc caagcccaga caacctgcgt cgcttgcct tggaacacga ggcctcggac 1380
ctggtggaga tctacctctg gaagctggta aaagatgagg aaactgaggc tcagagaggt 1440
gaagttacctg gcccaggcc acacagccag aatcttccac ttgactcaga tcaagaaaagt 1500
caggaagcaa gacttccaga aagaggcaca gcacttccga ctgctcgctg gccccccacga 1560
aggtaactgg aacgtcttcc tagccccagac cctggagctg aaggtcacgg ccagtccaga 1620
caaagtgacc aagacataac aaagacctaa cagttgcaga tatgagctgt ataattgctg 1680
ttatttatata ttaataaaata agaagttgca taaccatcaa aa 1722

```

<210> 6
<211> 1722
<212> DNA
<213> Homo sapiens

<400> 6
accttcccccc tttctttgat cgccctctccc ttctgctgga ctttccttcg tctctccatc 60
tctccctcct ttcccccggt tctctttcca cctttctctt ctcccaccc tagacctccc 120
ttcctgcctt cctttcctgc ccaccgctgc ttccctggccc ttctccgacc ccgctctagc 180
agcagaccc tcggggtctg tgggttgatc tgtggccccc gtgcctccgt gtcctttcg 240
tctcccttcc tcccgactcc gctcccggac cagcggcctg accctggga aaggatggtt 300
cccgaggtga gggtcctctc ctccctgctg ggactcgccg tgctctggtt cccctggac 360
tcccacgctc gagcccgccc agacatgttc tgcctttcc atggaaagag atactcccc 420
ggcgagagct ggcaccccta cttggagcca caaggcctga tgtactgcct gcgcgttacc 480
tgctcagagg gcgcccattgt gagttgttac cgcctccact gtccgcctgt ccactgcccc 540
cagcctgtga cggagccaca gcaatgctgt cccaaagtgtg tggAACCTCA cactccctct 600
ggactccggg cccccaccaaa gtcctgccag cacaacggga ccatgtacca acacggagag 660
atcttcagtg cccatgagct gttccctcc cgcctgccc accagtgtgt cctctgcagc 720
tgcacagagg gccagatcta ctgcggcctc acaacctgcc ccgaaccagg ctgcccagca 780
cccctccgc tgccagactc ctgctgccag gcctgcaaag gtgaggcaag tgagcaatcg 840
gatgaagagg acagtgtgca gtcgctccat ggggtgagac atcctcagga tccatgttcc 900
agtgtatgtc ggagaaaagag aggccccggc accccagccc ccactggct cagccccct 960
ctgagcttca tccctcgcca cttcagaccc aaggagcag gcagcacaac tgtcaagatc 1020
gtcctgaagg agaaacataa gaaagcctgt gtgcattggcg ggaagacgta ctcccacggg 1080
gaggtgtggc acccggcctt ccgtgccttc ggcccccttgc cctgcattcct atgcacctgt 1140
gaggatggcc gccaggactg ccagcgttgt acctgtccca ccgagtaccc ctgcccgtcac 1200
cccgagaaag tggctggaa gtgctgcaag atttgcctcagg aggacaaagc agaccctggc 1260
cacagtgaga tcagttctac caggtgtccc aaggcaccgg gccgggtcct cgtccacaca 1320
tcggtatccc caagccccaga caacctgcgt cgcttgcctc tggAACACGA ggcctcggac 1380
ttgggtggaga tctacctctg gaagctggta aaagatgagg aaactgaggc tcagagaggt 1440
gaagtacctg gcccaaggcc acacagccag aatctccac ttgactcaga tcaagaaaagt 1500
caggaagcaa gacttccaga aagaggcaca gcacttccga ctgctcgctg gcccccacga 1560
aggtaactgg aacgtcttcc tagccccagac cctggagctg aaggtcacgg ccagtccaga 1620
caaagtgacc aagacataac aaagacctaa cagttgcaga tatgagctgt ataattgtg 1680
ttattatata ttaataaaata agaagttgca taaccatcaa aa 1722

<210> 7
<211> 1515
<212> DNA
<213> Homo sapiens

<400> 7
agaacagtgc ctggcactga gaagtgtcc atgaaccctc attaaatgct ggatgaacta 60
actcqqqccc cactgaggcg aaqctgaggc tqccggctt accttcttqc tctqattqqq 120

gctggcccag acactgaggg ggctggaggg ctgtggtaga ggtcatggga gggagggact 180
 cagttagatg taggtatca agggacctct tagtttagctg ataagggaa tggctggcaa 240
 ggcccaggcc agagcttggt ttazatatac aactgggtc aaatgcaaaa tcatacgaaaa 300
 agtggccttg ttaatttcag caaagattca catgaaacct catttcttc ttectcctgc 360
 ccctccccca ctgcagaacc tcacactccc tctggactcc gggcccccacc aaagtccctgc 420
 cagcacaacg ggaccatgt acaacacgga gagatctca gtgcccattga gctgtccccc 480
 tcccgcctgc ccaaccagg tgccctctgc agctgcacag agggccagat ctactgcggc 540
 ctcacaacct gccccgaacc aggctgccc gcaccctcc cgctgcaga ctccctgc 600
 caggcctgca aagatgaggc aagtgagcaa tcggatgaag aggacactgt gcagtcgtc 660
 catggggtga gacatcctca ggatccatgt tccagtatgt ctgggagaaa gagaggcccc 720
 ggcaccccaag cccccactgg cctcagcgcc cctctgagct tcataccctcg ccacttcaga 780
 cccaagggag caggeagcac aactgtcaag atcgtccctga aggagaaaaca taagaaagcc 840
 tgtgtgcatt gcgggaaagac gtactccac ggggaggtgt ggcacccggc cttccgtgcc 900
 ttccggccct tgccctgcatt cctatgcacc tgtgaggatg gccgcaggaa ctgcccacgt 960
 gtgacactgtc ccaccggata cccctgcccgt caccccgaga aagtggctgg gaagtgcgtc 1020
 aagatttgc cagaggacaa agcagaccct ggccacagtg agatcagttc taccaggtgt 1080
 cccaaggcac cggggccgggt cctcgccac acatcggtat ccccaagccc agacaacctg 1140
 cgtcgcttgc ccttgaaaca cgaggcctcg gacttgggtg agatctaccc ctggaaagctg 1200
 gtaaaagatg aggaaactga ggctcagaga ggtgaagttc ctggcccaag gccacacagc 1260
 cagaatcttc cacttgactc agatcaagaa agtcaggaag caagacttcc agaaagaggg 1320
 acagacttc cgactgctcg ctggcccccga cgaaggcac tggaaacgtct tcctagccca 1380
 gaccctggag ctgaaggtaa cggccaggcc accaaagtg accaagacat aacaaagacc 1440
 taacagttgc agatatgagc tgtataattt ttgttattat atattaataa ataagaagtt 1500
 gcataaccat caaaa 1515

<210> 8
 <211> 1817
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggacaaataa aaaggaaaca agcatgattt tgagggcaga ggagcgtggg actgagtcag 60
 gagactggtg ctgtcatcg tgcctggta ctgacttgcgt gtgtggccct caggtgttaac 120
 ttaccctctc tgggcctcat ttgtctaattc ataataattt acgctgatac catgatataa 180
 atctgtacag catttactg cttgattccc taactgcctt gtgagataag cgtaaggct 240
 cagagacagt ggcattggca gtgtgcaca gtaatgtgtt ggtaaagccg agattcaaacc 300
 tcagacccctc tggcccttg cctaggagag catgcccagt tgtctagcag attctctttt 360
 gcctgagtgg cccagatgac atctctttt gagctagaaa gaaggagaaa tgagacaggg 420
 tctttggcct ggagccctt gggactaaca tggcaactggt cggtttgcca ggccagaca 480
 tggtctgcct tttccatggg aagagatact ccccccggcga gagctggcac ccctacttgg 540
 agccacaagg cctgatgtac tgcctgcgtc gtacctgctc agagggcgcc catgtgagtt 600
 gttaccgcct ccactgtccg cctgtccact gccccccagcc tggacggag ccacagcaat 660
 gctgtcccaa gtgtgtggaa cctcacactc cctctggact ccggggccca ccaaagtccct 720
 gccagcacaa cgggaccatg taccaacacg gagatctt cagtgcccat gagctgttcc 780
 cctcccgccct gccccaccag tggccctctt gcagctgcac agagggccag atctactgcg 840
 gcctcacaac ctgccccgaa ccaggctgcc cagcaccctt cccgctgcca gactcctgct 900
 gccaaggctg caaagatgag gcaagtggc aatcgatga agaggacagt gtgcagtcgc 960
 tccatggggc cagacatcc tggatccat gttccagtga tgctgggaga aagagaggcc 1020
 cgggcacccca agcccccact ggcctcagcg cccctctgag cttccatccct cgccacttca 1080
 gacccaaaggc agcaggcagc acaactgtca agatcgtctt gaaggagaaa cataagaaag 1140
 cctgtgtgca tggccggaaac acgtactccc acggggaggt gtggcaccgg gcctccgtg 1200
 cttccggccctt ctgccttcgc atcctatgca cctgtgagga tggccggccag gactgcccagc 1260
 gtgtgacctg tcccaccggat taccctgtcc gtcaccccgaa gaaagtggct gggaaagtgc 1320
 gcaagatttgc cccagaggac aaagcagacc ctggccacag tgagatcgt tctaccaggt 1380
 gtcccaaggc accggggccgg gtcctcgatcc acacatcggt atcccccaagc ccagacaacc 1440
 tgcgtcgctt tgcctggaa cacgaggccctt cggacttgcgt ggagatctac ctctggaaagc 1500
 tggtaaaaga tgaggaaact gaggtcaga gaggtgaagt acctggccca aggccacaca 1560
 gccaaggatct tccacttgac tcagatcaag aaagtggc aagcaagactt ccagaaagag 1620
 gcacagcact tccgactgtc cgctggccccc cacgaaggcc actggaaacgt ctccctagcc 1680
 cagaccctgg agctgaaggc cacggccagt ccagacaaag tgaccaagac ataacaaaga 1740

cctaaacagtt gcagatatac gctgtataat tggtgttatt atatattaat aaataagaag 1800
 ttgcataacc atcaaaa 1817

<210> 9
 <211> 1622
 <212> DNA
 <213> Homo sapiens

<400> 9
 ggacaaataa aaaggaaaca agcatgattg tgagggcaga ggagcgtgg actgagttag 60
 gagactggtg ctgtcatcg tgcctggta ctgacttgct gtgtggccct caggtgtaac 120
 ttacccttc tggcctcat ttgtctaatac ataataatta acgctgatac catgatataa 180
 atctgtacag catttcactg cttgattccc taactgcccgt gtgagataag cgtaaggct 240
 cagagacagt ggcattgcaca gtgtgcaca gtaagtgtgt gttaaagccg agattcaaacc 300
 tcagaccccttgc cctaggagag catgcccagt tgtctagcag attctctttt 360
 gcctgagtgg cccagatgac atctcttttta gagctagaaa gaaggagaaa tgagacaggg 420
 tctttggct ggaggctcct gggactaaca tggcactggc cggttgcac ggcccagaca 480
 tggtctgcct tttccatggg aagagatact cccccggcga gagctggcac ccctacttgg 540
 agccacaagg cctgatgtac tgcctgcgt gtacctgctc agagggcgcc catgtgagtt 600
 gttaccgcct ccactgtccg cctgtccact gccccccagcc tggacggag ccacagcaat 660
 gctgtcccaa gtgtgtggaa cctcacactc cctctggact cccggcccca ccaaagtcc 720
 gccagcacaa cgggaccatg taccaacacg gagagatctt cagtgcctt gagctgttcc 780
 cctccgcct gcccaaccagg tgggtccctt gcagctgcac agagggccag atctactgcg 840
 gcctcacaac ctgccccgaa ccaggctgcc cagcacccct cccgctgcac gactcctgct 900
 gccaagectg caaagatgag gcaagtggc aatcgatga agaggacagt gtgcagtcg 960
 tccatgggt gagacatctt caggatccat gttccagtga tgctggaga aagagaggcc 1020
 cgggcacccc agccccact ggcctcagcg cccctctgag ctcatccct cgccacttca 1080
 gaccaaggc agcaggcagc acaactgtca agatgtccct gaaggagaaa cataagaaag 1140
 aggacaaagc agaccctggc cacagtggaa tcagttctac caggtgtccc aaggcaccgg 1200
 gcccgggtcct cgtccacaca tcggtatccc caagccaga caacctgcgt cgctttgccc 1260
 tggAACACGA ggcctcggac ttgggtggaa tctacctctg gaagctggta aaagatgagg 1320
 aaactgaggc tcagagaggt gaagtacctg gccaaggcc acacagccag aatcttccac 1380
 ttgactcaga tcaagaaaagt caggaagcaa gacttccaga aagaggcaca gcacttccga 1440
 ctgctcgctg gccccacga aggtcactgg aacgtttcc tagcccagac cctggagctg 1500
 aaggtcacgg ccagtccaga caaagtggacc aagacataac aaagacactaa cagttgcaga 1560
 tatgagctgt ataattgttgc ttattatata ttaataaaata agaagttgca taaccatcaa 1620
 aa 1622

<210> 10
 <211> 1567
 <212> DNA
 <213> Homo sapiens

<400> 10
 ggacaaataa aaaggaaaca agcatgattg tgagggcaga ggagcgtgg actgagttag 60
 gagactggtg ctgtcatcg tgcctggta ctgacttgct gtgtggccct caggtgtaac 120
 ttacccttc tggcctcat ttgtctaatac ataataatta acgctgatac catgatataa 180
 atctgtacag catttcactg cttgattccc taactgcccgt gtgagataag cgtaaggct 240
 cagagacagt ggcattgcaca gtgtgcaca gtaagtgtgt gttaaagccg agattcaaacc 300
 tcagaccccttgc cctaggagag catgcccagt tgtctagcag attctctttt 360
 gcctgagtgg cccagatgac atctcttttta gagctagaaa gaaggagaaa tgagacaggg 420
 tctttggct ggaggctcct gggactaaca tggcactggc cggttgcac ggcccagaca 480
 tggtctgcct tttccatggg aagagatact cccccggcga gagctggcac ccctacttgg 540
 agccacaagg cctgatgtac tgcctgcgt gtacctgctc agagggcgcc catgtgagtt 600
 gttaccgcct ccactgtccg cctgtccact gccccccagcc tggacggag ccacagcaat 660
 gctgtcccaa gtgtgtggaa cctcacactc cctctggact cccggcccca ccaaagtcc 720
 gccagcacaa cgggaccatg taccaacacg gagagatctt cagtgcctt gagctgttcc 780
 cctccgcct gcccaaccagg tgggtccctt gcagctgcac agagggccag atctactgcg 840
 gcctcacaac ctgccccgaa ccaggctgcc cagcacccct cccgctgcac gactcctgct 900

gccaaggcctg caaaatgtgg gcaatgtggc aatcggttga agaggacagt gtgcagtcgc 960
 tccatgggtt gagacatccc caggatccat gttccagtga tgctggaga aagagaggcc 1020
 cgggcacccc agccccact ggcctcagcg cccctcttag ctctcatccc cgccacttca 1080
 gaccaagggg agcaggcagc acaactgtca agatgttctt gaaggagaaa cataagaaag 1140
 aggacaaagc agaccctggc cacagtgaga tcagttctac caggtgtccc aaggcaccgg 1200
 gccgggtctt cgtccacaca tcggtatccc caagcccaga caacctgcgt cgctttgccc 1260
 tggAACACGA ggcctcggac ttggggaga tctacctctg gaagctggta aaaggaatct 1320
 tccacttgac tcagatcaag aaagttaga agcaagactt ccagaaagag gcacagact 1380
 tccgactgct cgtggccccc cacgaaggc actggAACGT ctccctAGCC cagaccctgg 1440
 agctgaaggt cacggccagt ccagacaaag tgaccaagac ataacaaaga cctaacagtt 1500
 gcatgtataat tggtgttatt atatattaat aaataagaag ttgcataacc 1560
 atcaaaa 1567

<210> 11
 <211> 1202
 <212> DNA
 <213> Mouse

<400> 11
 atttctctat tcctgatccc acactgctct gcctacccac accagccca aggtctnaga 60
 aagccctgga ggctggcttg ccaaattcctt gtcagtgtnt ttattgatta gtctgagaat 120
 atcttagacc tcaccacaaa gttctgtgt ggagcctgtg ctctctgtct gtctgtctgt 180
 ctgtctgtct gtctgtctgt ctgcctgcct ctctctgtct gtctccgtct gtctctgtct 240
 ctctgtctgt ctctgtctgt ctctttctct ctgtctctct ctgtgtctct gtctctgtct 300
 ctgtctctct ctctctctca gaagtcctct acgcttctct agcaggcgtc tcatgcagcc 360
 tggttgggtgt tcccagctgt ggcctatccc acagacagct ccacatcctg cttgctgttc 420
 gcagagacat tcccaggatc catgctcgga gaggagaggc cccagcacgc cagcccccac 480
 cagcctcagc tcccctctgg gcttcatccn tcgccacttc cagtcagtag gaatggcag 540
 cacaaccatc aagattatct tgaaggagaa acataaaaaaa gcttgcacac acaatggaa 600
 gacatactcc catggggagg tgtggcaccc cactgtgctc tcctttggcc ccatgcctg 660
 catcctgtgc acatgtattt atggctacca ggactgccc acgtgtaccc gccccaccca 720
 atatccctgc agtcaaccca agaaagtggc tggaaagtgc tgcaagatct gcccagagga 780
 cgaggcggaa gatgaccaca gtgaggtcat ttccacccgg tgcaccaagg taccaggcca 840
 gttccaggtg tacacgttgg catctccaag cccagacagc ctacaccgct ttgtcctgga 900
 gcatgaagcc tctgaccagg tagagatgtt catttggaaag ctggtaaaag gaatttacca 960
 cttgttccag atcaagagag tcaggaagca agattccag aaagaggttc agaacttccg 1020
 gctgctcacc ggcacccatg aaggttactg gaccgttttc ctacccaga ttccagagct 1080
 gaaagttaca gccagccca agaaagtgc acagacatta tagcaaggac ctaaagagtt 1140
 gcagatacga gtttattgg ttttggattt atatattaat aaagaagtgc cattaccctt 1200
 tc 1202

<210> 12
 <211> 398
 <212> PRT
 <213> Homo sapiens

<400> 12
 Arg Glu Pro Gln Gly Leu Met Tyr Cys Leu Arg Cys Thr Cys Ser Glu
 1 5 10 15
 Gly Ala His Val Ser Cys Tyr Arg Leu His Cys Pro Pro Val His Cys
 20 25 30
 Pro Gln Pro Val Thr Glu Pro Gln Gln Cys Cys Pro Lys Cys Val Glu
 35 40 45
 Pro His Thr Pro Ser Gly Leu Arg Ala Pro Pro Lys Ser Cys Gln His
 50 55 60

Asn Gly Thr Met Tyr Gln His Glu Ile Phe Ser Ala His Glu Leu
 65 70 75 80

Phe Pro Ser Arg Leu Pro Asn Gln Cys Val Leu Cys Ser Cys Thr Glu
 85 90 95

Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys Pro Glu Pro Gly Cys Pro
 100 105 110

Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys Gln Ala Cys Lys Asp Glu
 115 120 125

Ala Ser Glu Gln Ser Asp Glu Glu Asp Ser Val Gln Ser Leu His Gly
 130 135 140

Val Arg His Pro Gln Asp Pro Cys Ser Ser Asp Ala Gly Arg Lys Arg
 145 150 155 160

Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu Ser Ala Pro Leu Ser Phe
 165 170 175

Ile Pro Arg His Phe Arg Pro Lys Gly Ala Gly Ser Thr Thr Val Lys
 180 185 190

Ile Val Leu Lys Glu Lys His Xaa Lys Ala Cys Val His Gly Gly Lys
 195 200 205

Thr Tyr Ser His Gly Glu Val Trp His Pro Ala Phe Arg Ala Phe Gly
 210 215 220

Pro Cys Pro Cys Ile Leu Cys Thr Cys Glu Asp Gly Arg Gln Asp Cys
 225 230 235 240

Gln Arg Val Thr Cys Pro Thr Lys Tyr Pro Cys Arg His Pro Glu Lys
 245 250 255

Val Ala Gly Lys Cys Cys Lys Ile Cys Pro Glu Asp Lys Ala Asp Pro
 260 265 270

Gly His Ser Glu Ile Ser Ser Thr Arg Cys Pro Lys Ala Pro Gly Arg
 275 280 285

Val Leu Val His Thr Ser Val Ser Pro Ser Pro Asp Asn Leu Arg Arg
 290 295 300

Phe Ala Leu Glu His Glu Ala Ser Asp Leu Val Glu Ile Tyr Leu Trp
 305 310 315 320

Lys Leu Val Lys Asp Glu Glu Thr Glu Ala Gln Arg Gly Glu Val Pro
 325 330 335

Gly Pro Arg Pro His Ser Gln Asn Phe His Leu Thr Gln Ile Lys Lys
 340 345 350

Val Arg Lys Gln Asp Phe Gln Lys Glu Ala Gln His Phe Arg Leu Leu
 355 360 365

Ala Gly Pro His Glu Gly His Trp Asn Val Phe Leu Ala Gln Thr Leu
 370 375 380

Glu Leu Lys Val Thr Ala Ser Pro Asp Lys Val Thr Lys Thr

385

390

395

<210> 13

<211> 539

<212> PRT

<213> Homo sapiens

<400> 13

Ser	Pro	Leu	Pro	Ser	Ala	Gly	Pro	Ser	Phe	Val	Ser	Pro	Ser	Leu	Pro
1										10					15

Pro	Phe	Pro	Ala	Phe	Ser	Phe	His	Leu	Ser	Leu	Leu	Pro	Thr	Leu	Asp
									25					30	

Leu	Pro	Ser	Cys	Pro	Pro	Phe	Leu	Pro	Thr	Ala	Ala	Ser	Trp	Pro	Phe
									40					45	

Ser	Asp	Pro	Ala	Leu	Ala	Ala	Asp	Leu	Leu	Gly	Ser	Cys	Gly	Leu	Ile
									55					60	

Cys	Gly	Pro	Cys	Xaa	Ser	Val	Ser	Phe	Ser	Ser	Pro	Val	Leu	Pro	Thr
									70					80	

Pro	Leu	Pro	Asp	Gln	Arg	Pro	Asp	Pro	Gly	Glu	Arg	Met	Val	Pro	Glu
									85					95	

Val	Arg	Val	Leu	Ser	Ser	Leu	Leu	Gly	Leu	Ala	Leu	Leu	Trp	Phe	Pro
									100					110	

Leu	Asp	Ser	His	Ala	Arg	Ala	Arg	Pro	Asp	Met	Phe	Cys	Leu	Phe	His
									115					125	

Gly	Lys	Arg	Tyr	Ser	Pro	Gly	Glu	Ser	Trp	His	Pro	Tyr	Leu	Glu	Pro
									130					140	

Gln	Gly	Leu	Met	Tyr	Cys	Leu	Arg	Cys	Thr	Cys	Ser	Glu	Gly	Ala	His
									145					160	

Val	Ser	Cys	Tyr	Arg	Leu	His	Cys	Pro	Pro	Val	His	Cys	Pro	Gln	Pro
									165					175	

Val	Thr	Glu	Pro	Gln	Gln	Cys	Cys	Pro	Lys	Cys	Val	Glu	Pro	His	Thr
									180					190	

Pro	Ser	Gly	Leu	Arg	Ala	Pro	Pro	Lys	Ser	Cys	Gln	His	Asn	Gly	Thr
									195					205	

Met	Tyr	Gln	His	Gly	Glu	Ile	Phe	Ser	Ala	His	Glu	Leu	Phe	Pro	Ser
									210					220	

Arg	Leu	Pro	Asn	Gln	Cys	Val	Leu	Cys	Ser	Cys	Thr	Glu	Gly	Gln	Ile
									225					240	

Tyr	Cys	Gly	Leu	Thr	Thr	Cys	Pro	Glu	Pro	Gly	Cys	Pro	Ala	Pro	Leu
									245					255	

Pro	Leu	Pro	Asp	Ser	Cys	Cys	Gln	Ala	Cys	Lys	Asp	Glu	Ala	Ser	Glu
									260					270	

Gln	Ser	Asp	Glu	Glu	Asp	Ser	Val	Gln	Ser	Leu	His	Gly	Val	Arg	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

275	280	285
Pro Gln Asp Pro Cys Ser Ser Asp Ala Gly Arg Lys Arg Gly Pro Gly		
290	295	300
Thr Pro Ala Pro Thr Gly Leu Ser Ala Pro Leu Ser Phe Ile Pro Arg		
305	310	315
His Phe Arg Pro Lys Gly Ala Gly Ser Thr Thr Val Lys Ile Val Leu		
325	330	335
Lys Glu Lys His Xaa Lys Ala Cys Val His Gly Gly Lys Thr Tyr Ser		
340	345	350
His Gly Glu Val Trp His Pro Ala Phe Arg Ala Phe Gly Pro Cys Pro		
355	360	365
Cys Ile Leu Cys Thr Cys Glu Asp Gly Arg Gln Asp Cys Gln Arg Val		
370	375	380
Thr Cys Pro Thr Lys Tyr Pro Cys Arg His Pro Glu Lys Val Ala Gly		
385	390	395
Lys Cys Cys Lys Ile Cys Pro Glu Asp Lys Ala Asp Pro Gly His Ser		
405	410	415
Glu Ile Ser Ser Thr Arg Cys Pro Lys Ala Pro Gly Arg Val Leu Val		
420	425	430
His Thr Ser Val Ser Pro Ser Pro Asp Asn Leu Arg Arg Phe Ala Leu		
435	440	445
Glu His Glu Ala Ser Asp Leu Val Glu Ile Tyr Leu Trp Lys Leu Val		
450	455	460
Lys Asp Glu Glu Thr Glu Ala Gln Arg Gly Glu Val Pro Gly Pro Arg		
465	470	475
480		
Pro His Ser Gln Asn Phe His Leu Thr Gln Ile Lys Lys Val Arg Lys		
485	490	495
Gln Asp Phe Gln Lys Glu Ala Gln His Phe Arg Leu Leu Ala Gly Pro		
500	505	510
His Glu Gly His Trp Asn Val Phe Leu Ala Gln Thr Leu Glu Leu Lys		
515	520	525
Val Thr Ala Ser Pro Asp Lys Val Thr Lys Thr		
530	535	

<210> 14
<211> 388
<212> PRT
<213> Homo sapiens

<400> 14
Ile Ser Ser Trp Gly Gln Met Gln Asn His Gln Lys Ser Gly Leu Val
1 5 10 15

Asn Phe Ser Lys Asp Ser His Glu Thr Ser Phe Ser Ser Ser Cys

20	25	30
Pro Ser Pro Thr Val Glu Pro His Thr Pro Ser Gly Leu Arg Ala Pro		
35	40	45
Prc Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His Gly Glu Ile		
50	55	60
Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn Gln Cys Val		
65	70	75
Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys		
85	90	95
Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys		
100	105	110
Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu Glu Asp Ser		
115	120	125
Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro Cys Ser Ser		
130	135	140
Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu		
145	150	155
Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro Lys Gly Ala		
165	170	175
Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His Xaa Lys Ala		
180	185	190
Cys Val His Gly Gly Lys Thr Tyr Ser His Gly Glu Val Trp His Pro		
195	200	205
Ala Phe Arg Ala Phe Gly Pro Cys Pro Cys Ile Leu Cys Thr Cys Glu		
210	215	220
Asp Gly Arg Gln Asp Cys Gln Arg Val Thr Cys Pro Thr Lys Tyr Pro		
225	230	235
240		
Cys Arg His Pro Glu Lys Val Ala Gly Lys Cys Cys Lys Ile Cys Pro		
245	250	255
Glu Asp Lys Ala Asp Pro Gly His Ser Glu Ile Ser Ser Thr Arg Cys		
260	265	270
Pro Lys Ala Pro Gly Arg Val Leu Val His Thr Ser Val Ser Pro Ser		
275	280	285
Pro Asp Asn Leu Arg Arg Phe Ala Leu Glu His Glu Ala Ser Asp Leu		
290	295	300
Val Glu Ile Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu Thr Glu Ala		
305	310	315
320		
Gln Arg Gly Glu Val Pro Gly Pro Arg Pro His Ser Gln Asn Phe His		
325	330	335
Leu Thr Gln Ile Lys Lys Val Arg Lys Gln Asp Phe Gln Lys Glu Ala		
340	345	350

Gln His Phe Arg Leu Leu Ala Gly Pro His Glu Gly His Trp Asn Val
 355 360 365

Phe Leu Ala Gln Thr Leu Glu Leu Lys Val Thr Ala Ser Pro Asp Lys
 370 375 380

Val Thr Lys Thr
 385

<210> 15

<211> 439

<212> PRT

<213> Homo sapiens

<400> 15

Asp Arg Val Phe Gly Leu Glu Pro Pro Gly Thr Asn Met Ala Leu Val
 1 5 10 15

Gly Leu Pro Gly Pro Asp Met Phe Cys Leu Phe His Gly Lys Arg Tyr
 20 25 30

Ser Pro Gly Glu Ser Trp His Pro Tyr Leu Glu Pro Gln Gly Leu Met
 35 40 45

Tyr Cys Leu Arg Cys Thr Cys Ser Glu Gly Ala His Val Ser Cys Tyr
 50 55 60

Arg Leu His Cys Pro Pro Val His Cys Pro Gln Pro Val Thr Glu Pro
 65 70 75 80

Gln Gln Cys Cys Pro Lys Cys Val Glu Pro His Thr Pro Ser Gly Leu
 85 90 95

Arg Ala Pro Pro Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His
 100 105 110

Gly Glu Ile Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn
 115 120 125

Gln Cys Val Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu
 130 135 140

Thr Thr Cys Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp
 145 150 155 160

Ser Cys Cys Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu
 165 170 175

Glu Asp Ser Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro
 180 185 190

Cys Ser Ser Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro
 195 200 205

Thr Gly Leu Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro
 210 215 220

Lys Gly Ala Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His
 225 230 235 240

Xaa Lys Ala Cys Val His Gly Gly Lys Thr Tyr Ser His Gly Glu Val
 245 250 255

Trp His Pro Ala Phe Arg Ala Phe Gly Pro Cys Pro Cys Ile Leu Cys
 260 265 270

Thr Cys Glu Asp Gly Arg Gln Asp Cys Gln Arg Val Thr Cys Pro Thr
 275 280 285

Lys Tyr Pro Cys Arg His Pro Glu Lys Val Ala Gly Lys Cys Cys Lys
 290 295 300

Ile Cys Pro Glu Asp Lys Ala Asp Pro Gly His Ser Glu Ile Ser Ser
 305 310 315 320

Thr Arg Cys Pro Lys Ala Pro Gly Arg Val Leu Val His Thr Ser Val
 325 330 335

Ser Pro Ser Pro Asp Asn Leu Arg Arg Phe Ala Leu Glu His Glu Ala
 340 345 350

Ser Asp Leu Val Glu Ile Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu
 355 360 365

Thr Glu Ala Gln Arg Gly Glu Val Pro Gly Pro Arg Pro His Ser Gln
 370 375 380

Asn Phe His Leu Thr Gln Ile Lys Lys Val Arg Lys Gln Asp Phe Gln
 385 390 395 400

Lys Glu Ala Gln His Phe Arg Leu Leu Ala Gly Pro His Glu Gly His
 405 410 415

Trp Asn Val Phe Leu Ala Gln Thr Leu Glu Leu Lys Val Thr Ala Ser
 420 425 430

Pro Asp Lys Val Thr Lys Thr
 435

<210> 16
 <211> 549
 <212> PRT
 <213> Homo sapiens

<400> 16
 Thr Phe Pro Leu Ser Leu Ile Ala Ser Pro Phe Cys Trp Thr Phe Leu
 1 5 10 15

Arg Leu Ser Ile Ser Pro Ser Phe Pro Arg Val Leu Phe Pro Pro Phe
 20 25 30

Ser Ser Ser His Leu Arg Pro Pro Phe Leu Pro Ser Phe Pro Ala His
 35 40 45

Arg Cys Phe Leu Ala Leu Leu Arg Pro Arg Ser Ser Ser Arg Pro Pro
 50 55 60

Gly Val Cys Gly Leu Ile Cys Gly Pro Cys Ala Ser Val Ser Phe Ser
 65 70 75 80

Ser Pro Phe Leu Pro Thr Pro Leu Pro Asp Gln Arg Pro Asp Pro Gly
 85 90 95
 Glu Arg Met Val Pro Glu Val Arg Val Leu Ser Ser Leu Leu Gly Leu
 100 105 110
 Ala Leu Leu Trp Phe Pro Leu Asp Ser His Ala Arg Ala Arg Pro Asp
 115 120 125
 Met Phe Cys Leu Phe His Gly Lys Arg Tyr Ser Pro Gly Glu Ser Trp
 130 135 140
 His Pro Tyr Leu Glu Pro Gln Gly Leu Met Tyr Cys Leu Arg Cys Thr
 145 150 155 160
 Cys Ser Glu Gly Ala His Val Ser Cys Tyr Arg Leu His Cys Pro Pro
 165 170 175
 Val His Cys Pro Gln Pro Val Thr Glu Pro Gln Gln Cys Cys Pro Lys
 180 185 190
 Cys Val Glu Pro His Thr Pro Ser Gly Leu Arg Ala Pro Pro Lys Ser
 195 200 205
 Cys Gln His Asn Gly Thr Met Tyr Gln His Gly Glu Ile Phe Ser Ala
 210 215 220
 His Glu Leu Phe Pro Ser Arg Leu Pro Asn Gln Cys Val Leu Cys Ser
 225 230 235 240
 Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys Pro Glu Pro
 245 250 255
 Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys Gln Ala Cys
 260 265 270
 Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu Glu Asp Arg Val Gln Ser
 275 280 285
 Leu His Gly Val Arg His Pro Gln Asp Pro Cys Ser Ser Asp Ala Gly
 290 295 300
 Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu Ser Ala Pro
 305 310 315 320
 Leu Ser Phe Ile Pro Arg His Phe Ile Pro Lys Gly Ala Gly Ser Thr
 325 330 335
 Thr Val Lys Ile Val Leu Lys Glu Lys His Lys Lys Ala Cys Val His
 340 345 350
 Gly Gly Lys Thr Tyr Ser His Gly Glu Val Trp His Pro Ala Phe Arg
 355 360 365
 Ala Phe Gly Pro Leu Pro Cys Ile Leu Cys Thr Cys Glu Asp Gly Arg
 370 375 380
 Gln Asp Cys Gln Arg Val Thr Cys Pro Thr Glu Tyr Pro Cys Arg His
 385 390 395 400

Pro Glu Lys Val Ala Gly Lys Cys Cys Lys Ile Cys Pro Glu Asp Lys
 405 410 415
 Ala Asp Pro Gly His Ser Glu Ile Ser Ser Thr Arg Cys Pro Lys Ala
 420 425 430
 Pro Gly Arg Val Leu Val His Thr Ser Val Ser Pro Ser Pro Asp Asn
 435 440 445
 Leu Arg Arg Phe Ala Leu Glu His Glu Ala Ser Asp Leu Val Glu Ile
 450 455 460
 Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu Thr Glu Ala Gln Arg Gly
 465 470 475 480
 Glu Val Pro Gly Pro Arg Pro His Ser Gln Asn Leu Pro Leu Asp Ser
 485 490 495
 Asp Gln Glu Ser Gln Glu Ala Arg Leu Pro Glu Arg Gly Thr Ala Leu
 500 505 510
 Pro Thr Ala Arg Trp Pro Pro Arg Arg Ser Leu Glu Arg Leu Pro Ser
 515 520 525
 Pro Asp Pro Gly Ala Glu Gly His Gly Gln Ser Arg Gln Ser Asp Gln
 530 535 540
 Asp Ile Thr Lys Thr
 545

<210> 17
 <211> 549
 <212> PRT
 <213> Homo sapiens

<400> 17
 Thr Phe Pro Leu Ser Leu Ile Ala Ser Pro Phe Cys Trp Thr Phe Leu
 1 5 10 15
 Arg Leu Ser Ile Ser Pro Ser Phe Pro Arg Val Leu Phe Pro Pro Phe
 20 25 30
 Ser Ser Ser His Leu Arg Pro Pro Phe Leu Pro Ser Phe Pro Ala His
 35 40 45
 Arg Cys Phe Leu Ala Leu Leu Arg Pro Arg Ser Ser Ser Arg Pro Pro
 50 55 60
 Gly Val Cys Gly Leu Ile Cys Gly Pro Cys Ala Ser Val Ser Phe Ser
 65 70 75 80
 Ser Pro Phe Leu Pro Thr Pro Leu Pro Asp Gln Arg Pro Asp Pro Gly
 85 90 95
 Glu Arg Met Val Pro Glu Val Arg Val Leu Ser Ser Leu Leu Gly Leu
 100 105 110
 Ala Leu Leu Trp Phe Pro Leu Asp Ser His Ala Arg Ala Arg Pro Asp
 115 120 125

Met Phe Cys Leu Phe His Gly Lys Arg Tyr Ser Pro Gly Glu Ser Trp
 130 135 140
 His Pro Tyr Leu Glu Pro Gin Gly Leu Met Tyr Cys Leu Arg Cys Thr
 145 150 155 160
 Cys Ser Glu Gly Ala His Val Ser Cys Tyr Arg Leu His Cys Pro Pro
 165 170 175
 Val His Cys Pro Gln Pro Val Thr Glu Pro Gln Gln Cys Cys Pro Lys
 180 185 190
 Cys Val Glu Pro His Thr Pro Ser Gly Leu Arg Ala Pro Pro Lys Ser
 195 200 205
 Cys Gln His Asn Gly Thr Met Tyr Gln His Gly Glu Ile Phe Ser Ala
 210 215 220
 His Glu Leu Phe Pro Ser Arg Leu Pro Asn Gln Cys Val Leu Cys Ser
 225 230 235 240
 Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys Pro Glu Pro
 245 250 255
 Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys Gln Ala Cys
 260 265 270
 Lys Gly Glu Ala Ser Glu Gln Ser Asp Glu Glu Asp Ser Val Gln Ser
 275 280 285
 Leu His Gly Val Arg His Pro Gln Asp Pro Cys Ser Ser Asp Ala Gly
 290 295 300
 Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu Ser Ala Pro
 305 310 315 320
 Leu Ser Phe Ile Pro Arg His Phe Arg Pro Lys Gly Ala Gly Ser Thr
 325 330 335
 Thr Val Lys Ile Val Leu Lys Glu Lys His Lys Lys Ala Cys Val His
 340 345 350
 Gly Gly Lys Thr Tyr Ser His Gly Glu Val Trp His Pro Ala Phe Arg
 355 360 365
 Ala Phe Gly Pro Leu Pro Cys Ile Leu Cys Thr Cys Glu Asp Gly Arg
 370 375 380
 Gln Asp Cys Gln Arg Val Thr Cys Pro Thr Glu Tyr Pro Cys Arg His
 385 390 395 400
 Pro Glu Lys Val Ala Gly Lys Cys Cys Lys Ile Cys Pro Glu Asp Lys
 405 410 415
 Ala Asp Pro Gly His Ser Glu Ile Ser Ser Thr Arg Cys Pro Lys Ala
 420 425 430
 Pro Gly Arg Val Leu Val His Thr Ser Val Ser Pro Ser Pro Asp Asn
 435 440 445
 Leu Arg Arg Phe Ala Leu Glu His Glu Ala Ser Asp Leu Val Glu Ile

450	455	460
Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu Thr Glu Ala Gln Arg Gly		
465	470	475
Glu Val Pro Gly Pro Arg Pro His Ser Gln Asn Leu Pro Leu Asp Ser		
485	490	495
Asp Gln Glu Ser Gln Glu Ala Arg Leu Pro Glu Arg Gly Thr Ala Leu		
500	505	510
Pro Thr Ala Arg Trp Pro Pro Arg Arg Ser Leu Glu Arg Leu Pro Ser		
515	520	525
Pro Asp Pro Gly Ala Glu Gly His Gly Gln Ser Arg Gln Ser Asp Gln		
530	535	540
Asp Ile Thr Lys Thr		
545		
<210> 18		
<211> 392		
<212> PRT		
<213> Homo sapiens		
<400> 18		
Ile Ser Ser Trp Gly Gln Met Gln Asn His Gln Lys Ser Gly Leu Val		
1	5	10
		15
Asn Phe Ser Lys Asp Ser His Glu Thr Ser Phe Ser Ser Ser Cys		
20	25	30
Pro Ser Pro Thr Ala Glu Pro His Thr Pro Ser Gly Leu Arg Ala Pro		
35	40	45
Pro Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His Gly Glu Ile		
50	55	60
Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn Gln Cys Val		
65	70	75
		80
Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys		
85	90	95
Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys		
100	105	110
Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu Glu Asp Ser		
115	120	125
Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro Cys Ser Ser		
130	135	140
Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu		
145	150	155
		160
Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro Lys Gly Ala		
165	170	175
Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His Lys Lys Ala		

	180	185	190												
Cys	Val	His	Gly	Gly	Lys	Thr	Tyr	Ser	His	Gly	Glu	Val	Trp	His	Pro
	195					200							205		
Ala	Phe	Arg	Ala	Phe	Gly	Pro	Leu	Pro	Cys	Ile	Leu	Cys	Thr	Cys	Glu
	210					215							220		
Asp	Gly	Arg	Gln	Asp	Cys	Gln	Arg	Val	Thr	Cys	Pro	Thr	Glu	Tyr	Pro
	225					230							235		240
Cys	Arg	His	Pro	Glu	Lys	Val	Ala	Gly	Lys	Cys	Cys	Lys	Ile	Cys	Pro
						245							250		255
Glu	Asp	Lys	Ala	Asp	Pro	Gly	His	Ser	Glu	Ile	Ser	Ser	Thr	Arg	Cys
						260							265		270
Pro	Lys	Ala	Pro	Gly	Arg	Val	Leu	Val	His	Thr	Ser	Val	Ser	Pro	Ser
						275							280		285
Pro	Asp	Asn	Leu	Arg	Arg	Phe	Ala	Leu	Glu	His	Glu	Ala	Ser	Asp	Leu
						290							295		300
Val	Glu	Ile	Tyr	Leu	Trp	Lys	Leu	Val	Lys	Asp	Glu	Glu	Thr	Glu	Ala
						305							310		315
Gln	Arg	Gly	Glu	Val	Pro	Gly	Pro	Arg	Pro	His	Ser	Gln	Asn	Leu	Pro
						325							330		335
Leu	Asp	Ser	Asp	Gln	Glu	Ser	Gln	Glu	Ala	Arg	Leu	Pro	Glu	Arg	Gly
						340							345		350
Thr	Ala	Leu	Pro	Thr	Ala	Arg	Trp	Pro	Pro	Arg	Arg	Ser	Leu	Glu	Arg
						355							360		365
Leu	Pro	Ser	Pro	Asp	Pro	Gly	Ala	Glu	Gly	His	Gly	Gln	Ser	Arg	Gln
						370							375		380
Ser	Asp	Gln	Asp	Ile	Thr	Lys	Thr								
						385							390		

<210> 19
<211> 443
<212> PRT
<213> Homo sapiens

<400> 19															
Asp	Arg	Val	Phe	Gly	Leu	Glu	Pro	Pro	Gly	Thr	Asn	Met	Ala	Leu	Val
		1		5		10							15		
Gly	Leu	Pro	Gly	Pro	Asp	Met	Phe	Cys	Leu	Phe	His	Gly	Lys	Arg	Tyr
						20			25				30		
Ser	Pro	Gly	Glu	Ser	Trp	His	Pro	Tyr	Leu	Glu	Pro	Gln	Gly	Leu	Met
						35			40				45		
Tyr	Cys	Leu	Arg	Cys	Thr	Cys	Ser	Glu	Gly	Ala	His	Val	Ser	Cys	Tyr
						50			55				60		
Arg	Leu	His	Cys	Pro	Pro	Val	His	Cys	Pro	Gln	Pro	Val	Thr	Glu	Pro

65	70	75	80
Gln Gln Cys Cys Pro Lys Cys Val Glu Prc His Thr Pro Ser Gly Leu			
85		90	95
Arg Ala Pro Pro Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His			
100		105	110
Gly Glu Ile Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn			
115		120	125
Gln Cys Val Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu			
130		135	140
Thr Thr Cys Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp			
145		150	155
Ser Cys Cys Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu			
165		170	175
Glu Asp Ser Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro			
180		185	190
Cys Ser Ser Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro			
195		200	205
Thr Gly Leu Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro			
210		215	220
Lys Gly Ala Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His			
225		230	235
Lys Lys Ala Cys Val His Gly Gly Lys Thr Tyr Ser His Gly Glu Val			
245		250	255
Trp His Pro Ala Phe Arg Ala Phe Gly Pro Leu Pro Cys Ile Leu Cys			
260		265	270
Thr Cys Glu Asp Gly Arg Gln Asp Cys Gln Arg Val Thr Cys Pro Thr			
275		280	285
Glu Tyr Pro Cys Arg His Pro Glu Lys Val Ala Gly Lys Cys Cys Lys			
290		295	300
Ile Cys Pro Glu Asp Lys Ala Asp Pro Gly His Ser Glu Ile Ser Ser			
305		310	315
320			
Thr Arg Cys Pro Lys Ala Pro Gly Arg Val Leu Val His Thr Ser Val			
325		330	335
Ser Pro Ser Pro Asp Asn Leu Arg Arg Phe Ala Leu Glu His Glu Ala			
340		345	350
Ser Asp Leu Val Glu Ile Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu			
355		360	365
Thr Glu Ala Gln Arg Gly Glu Val Pro Gly Pro Arg Pro His Ser Gln			
370		375	380
Asn Leu Pro Leu Asp Ser Asp Gln Glu Ser Gln Glu Ala Arg Leu Pro			
385		390	395
400			

Glu Arg Gly Thr Ala Leu Pro Thr Ala Arg Trp Pro Pro Arg Arg Ser
 405 410 415
 Leu Glu Arg Leu Pro Ser Pro Asp Pro Gly Ala Glu Gly His Gly Gln
 420 425 430
 Ser Arg Gln Ser Asp Gln Asp Ile Thr Lys Thr
 435 440

<210> 20
 <211> 378
 <212> PRT
 <213> Homo sapiens

<400> 20
 Asp Arg Val Phe Gly Leu Glu Pro Pro Gly Thr Asn Met Ala Leu Val
 1 5 10 15

Gly Leu Pro Gly Pro Asp Met Phe Cys Leu Phe His Gly Lys Arg Tyr
 20 25 30

Ser Pro Gly Glu Ser Trp His Pro Tyr Leu Glu Pro Gln Gly Leu Met
 35 40 45

Tyr Cys Leu Arg Cys Thr Cys Ser Glu Gly Ala His Val Ser Cys Tyr
 50 55 60

Arg Leu His Cys Pro Pro Val His Cys Pro Gln Pro Val Thr Glu Pro
 65 70 75 80

Gln Gln Cys Cys Pro Lys Cys Val Glu Pro His Thr Pro Ser Gly Leu
 85 90 95

Arg Ala Pro Pro Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His
 100 105 110

Gly Glu Ile Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn
 115 120 125

Gln Cys Val Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu
 130 135 140

Thr Thr Cys Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp
 145 150 155 160

Ser Cys Cys Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu
 165 170 175

Glu Asp Ser Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro
 180 185 190

Cys Ser Ser Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro
 195 200 205

Thr Gly Leu Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro
 210 215 220

Lys Gly Ala Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His
 225 230 235 240

Lys Lys Glu Asp Lys Ala Asp Pro Gly His Ser Glu Ile Ser Ser Thr
 245 250 255

Arg Cys Pro Lys Ala Pro Gly Arg Val Leu Val His Thr Ser Val Ser
 260 265 270

Pro Ser Pro Asp Asn Leu Arg Arg Phe Ala Leu Glu His Glu Ala Ser
 275 280 285

Asp Leu Val Glu Ile Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu Thr
 290 295 300

Glu Ala Gln Arg Gly Glu Val Pro Gly Pro Arg Pro His Ser Gln Asn
 305 310 315 320

Leu Pro Leu Asp Ser Asp Gln Glu Ser Gln Glu Ala Arg Leu Pro Glu
 325 330 335

Arg Gly Thr Ala Leu Pro Thr Ala Arg Trp Pro Pro Arg Arg Ser Leu
 340 345 350

Glu Arg Leu Pro Ser Pro Asp Pro Gly Ala Glu Gly His Gly Gln Ser
 355 360 365

Arg Gln Ser Asp Gln Asp Ile Thr Lys Thr
 370 375

<210> 21

<211> 356

<212> PRT

<213> Homo sapiens

<400> 21

Asp Arg Val Phe Gly Leu Glu Pro Pro Gly Thr Asn Met Ala Leu Val
 1 5 10 15

Gly Leu Pro Gly Pro Asp Met Phe Cys Leu Phe His Gly Lys Arg Tyr
 20 25 30

Ser Pro Gly Glu Ser Trp His Pro Tyr Leu Glu Pro Gln Gly Leu Met
 35 40 45

Tyr Cys Leu Arg Cys Thr Cys Ser Glu Gly Ala His Val Ser Cys Tyr
 50 55 60

Arg Leu His Cys Pro Pro Val His Cys Pro Gln Pro Val Thr Glu Pro
 65 70 75 80

Gln Gln Cys Cys Pro Lys Cys Val Glu Pro His Thr Pro Ser Gly Leu
 85 90 95

Arg Ala Pro Pro Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His
 100 105 110

Gly Glu Ile Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn
 115 120 125

Gln Cys Val Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu
 130 135 140

Thr Thr Cys Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp
 145 150 155 160
 Ser Cys Cys Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu
 165 170 175
 Glu Asp Ser Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro
 180 185 190
 Cys Ser Ser Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro
 195 200 205
 Thr Gly Leu Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro
 210 215 220
 Lys Gly Ala Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His
 225 230 235 240
 Lys Lys Glu Asp Lys Ala Asp Pro Gly His Ser Glu Ile Ser Ser Thr
 245 250 255
 Arg Cys Pro Lys Ala Pro Gly Arg Val Leu Val His Thr Ser Val Ser
 260 265 270
 Pro Ser Pro Asp Asn Leu Arg Arg Phe Ala Leu Glu His Glu Ala Ser
 275 280 285
 Asp Leu Val Glu Ile Tyr Leu Trp Lys Leu Val Lys Gly Ile Phe His
 290 295 300
 Leu Thr Gln Ile Lys Lys Val Arg Lys Gln Asp Phe Gln Lys Glu Ala
 305 310 315 320
 Gln His Phe Arg Leu Leu Ala Gly Pro His Glu Gly His Trp Asn Val
 325 330 335
 Phe Leu Ala Gln Thr Leu Glu Leu Lys Val Thr Ala Ser Pro Asp Lys
 340 345 350
 Val Thr Lys Thr
 355

<210> 22
 <211> 397
 <212> PRT
 <213> Mouse

<400> 22
 Phe Leu Tyr Ser Ser His Thr Ala Leu Pro Thr His Thr Ser Pro Lys
 1 5 10 15
 Val Xaa Glu Ser Pro Gly Gly Trp Leu Ala Lys Ser Leu Ser Val Xaa
 20 25 30
 Leu Leu Ile Ser Leu Arg Ile Ser Thr Ser Pro Thr Arg Phe Cys Val
 35 40 45
 Glu Pro Val Leu Ser Val Cys Leu Ser Val Cys Leu Ser Val Cys Leu
 50 55 60

Ser Ala Cys Leu Ser Leu Ser Val Ser Val Cys Leu Cys Leu Ser Val
 65 70 75 80
 Cys Leu Cys Leu Ser Leu Ser Leu Cys Leu Ser Leu Cys Leu Cys Leu
 85 90 95
 Cys Leu Cys Leu Ser Leu Ser Leu Arg Ser Pro Leu Ala Phe Ser Ser
 100 105 110
 Arg Arg Leu Met Gln Pro Gly Trp Cys Ser Gln Leu Trp Pro Ile Pro
 115 120 125
 Gln Thr Ala Pro His Pro Ala Cys Cys Ser Gln Arg His Ser Gln Asp
 130 135 140
 Pro Cys Ser Glu Arg Arg Gly Pro Ser Thr Pro Ala Pro Thr Ser Leu
 145 150 155 160
 Ser Ser Pro Leu Gly Phe Ile Xaa Arg His Phe Gln Ser Val Gly Met
 165 170 175
 Gly Ser Thr Thr Ile Lys Ile Ile Leu Lys Glu Lys His Lys Lys Ala
 180 185 190
 Cys Thr His Asn Gly Lys Thr Tyr Ser His Gly Glu Val Trp His Pro
 195 200 205
 Thr Val Leu Ser Phe Gly Pro Met Pro Cys Ile Leu Cys Thr Cys Ile
 210 215 220
 Asp Gly Tyr Gln Asp Cys His Arg Val Thr Cys Pro Thr Gln Tyr Pro
 225 230 235 240
 Cys Ser Gln Pro Lys Lys Val Ala Gly Lys Cys Cys Lys Ile Cys Pro
 245 250 255
 Glu Asp Glu Ala Glu Asp Asp His Ser Glu Val Ile Ser Thr Arg Cys
 260 265 270
 Pro Lys Val Pro Gly Gln Phe Gln Val Tyr Thr Leu Ala Ser Pro Ser
 275 280 285
 Pro Asp Ser Leu His Arg Phe Val Leu Glu His Glu Ala Ser Asp Gln
 290 295 300
 Val Glu Met Tyr Ile Trp Lys Leu Val Lys Gly Ile Tyr His Leu Val
 305 310 315 320
 Gln Ile Lys Arg Val Arg Lys Gln Asp Phe Gln Lys Glu Val Gln Asn
 325 330 335
 Phe Arg Leu Leu Thr Gly Thr His Glu Gly Tyr Trp Thr Val Phe Leu
 340 345 350
 Ala Gln Ile Pro Glu Leu Lys Val Thr Ala Ser Pro Asp Lys Val Thr
 355 360 365
 Lys Thr Leu Gln Gly Pro Lys Glu Leu Gln Ile Arg Val Leu Leu Val
 370 375 380

WO 01/34796

PCT/IL00/00736

Leu Leu Leu Tyr Ile Asn Lys Glu Val Ala Leu Pro Phe
385 390 395